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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCUMENTS		
10/052,945	11/02/2001	Dennis Lang	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
			018865-008300US	1114	
20350	7590 03/19/2003				
TOWNSEND	AND TOWNSEND A	ND CDEW TED			
IWOEMBAR	CADERO CENTER	ND CREW, LLP	EXAMINER		
EIGHTH FLO	EIGHTH FLOOR			CRUZ, LOURDES C	
SAN FRANCI	SCO, CA 94111-3834		CROZ, LOURDES C		
			ART UNIT	PAPER NUMBER	
			2827		
			DATE MAILED: 03/19/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
Office Action Summary		10/052,945	LANG, DENNIS
		Examiner	Art Unit
	The MALLING DATE of the	Lourdes C. Cruz	2827
Period fo	or Reply	inication appears on the cover she	eet with the correspondence address
- Exte after - If the - If NC - Failu - Any r	ORTENED STATUTORY PERIOD MAILING DATE OF THIS COMMUI nsions of time may be available under the provision SIX (6) MONTHS from the mailing date of this comperiod for reply specified above is less than thirty period for reply is specified above, the maximum re to reply within the set or extended period for reply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	NICATION. ns of 37 CFR 1.136(a). In no event, however, romunication. (30) days, a reply within the statutory minimum statutory period will apply and will expire SIX (6)	nay a reply be timely filed of thirty (30) days will be considered timely.) MONTHS from the mailing date of this communication.
1)	Responsive to communication(s)	filed on 02 November 2001	
2a) <u></u> ☐	This action is FINAL.	2b)⊠ This action is non-final.	
3) <u> </u>	Since this application is in condition closed in accordance with the praction of Claims	on for allowance except for forms	I matters, prosecution as to the merits is 5 C.D. 11, 453 O.G. 213.
4) 🖂	Claim(s) <u>1-19</u> is/are pending in the	application.	
	4a) Of the above claim(s) is/a		
	Claim(s) <u><i>11-15,18 and 19</i></u> is/are allo		•
	Claim(s) <u>1-10,16-17</u> is/are rejected.		
7)	Claim(s) is/are objected to.		
8) 🗌 (Claim(s) are subject to restri	ction and/or election requirement	
ppiicatio	on Papers		
	he specification is objected to by th		
10) <u>⊠</u> T	he drawing(s) filed on <u>02 Novembe</u>	<u>r 2001</u> is/are: a)□ accepted or b)[☑ objected to by the Examiner .
44) 🗆 🛨	Applicant may not request that any ob	jection to the drawing(s) be held in a	beyance. See 37 CFR 1.85(a).
11)[_] 1.	he proposed drawing correction file	d on is: a)⊡ approved b)[disapproved by the Examiner.
12\□ TI	If approved, corrected drawings are re	quired in reply to this Office action.	
	ne oath or declaration is objected to	by the Examiner.	
	ider 35 U.S.C. §§ 119 and 120		
عردا	Acknowledgment is made of a claim	for foreign priority under 35 U.S.	C. § 119(a)-(d) or (f).
	All b) Some * c) None of:		
_	. Certified copies of the priority		
	 Certified copies of the priority Copies of the certified copies 	documents have been received i	n Application No
* Se	application from the Internet the attached detailed Office action	n for a list of the certified copies r	not received.
14)∐ Acl	knowledgment is made of a claim fo	or domestic priority under 35 U.S.	C. § 119(e) (to a provisional application
a) [15)∐ Ac	」 The translation of the foreign lan knowledgment is made of a claim fo	Quage provisional application bad	hoon received
achment(s)			
Notice o	f References Cited (PTO-892) f Draftsperson's Patent Drawing Review (PT ion Disclosure Statement(s) (PTO-1449) Pa		ew Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)

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DETAILED ACTION

Drawings

All Figures are improperly crosshatched. All of the cross hatching patterns should be selected from those shown on page 600-81 of the MPEP based on the material of the part. Also see 35 CFR 184 (h)(3) and MPEP 608.02.

Figure 1 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Also, the drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign mentioned in the description: die 60 (p.5, line15). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Additionally, the drawings are objected to because Figures 5 and 7 aren't clear; it is difficult to see the details. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application.

Specification

The disclosure is objected to because of the following informalities: See page 7, lines 13+ wherein applicant describes "invisible lines". A more appropriate description of the lines is necessary.

Appropriate correction is required.

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Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter that the applicant regards as his invention.

Claims 1-10 and 16-17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 recites, "covering a portion the first surface". It is unclear as to this means. For this action examiner assumes it to mean that the bus member covers a portion of the first surface.

Claim 10 recites, "Wherein gate is a trench gate". For this action the examiner assumes the claim refers to the gate of claim 1 and no further gates being introduced.

Claim 16 recites a bus member electrically coupling the source region to the ground plane. What source region?

Allowable Subject Matter

Claims 11-15 and 18-19 are allowed. The claims recite a semiconductor die package comprising a semiconductor die comprising a vertical power transistor and the specific structural locations of the gate, drain, source and ground regions with respect to one another and with respect to a bus bar. The above specific limitations in combination with all other features recited in the claims make the claims allowable over the prior art.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lourdes C. Cruz whose telephone number is 703-306-5691. The examiner can normally be reached on M-F 10-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David L. Talbott can be reached on 703-305-9883. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

Lourdes C. Cruz Examiner Art Unit 2827

Lourdes Cruz March 17, 2003

> JEROME MOKSON PRIMARY EXAMINER